

ABSTRACT OF DISCLOSURE

A beam-index-type cathode ray tube includes a vacuum tube defined by a panel and a funnel having a neck; a phosphor screen provided with index stripes to provide color selection, the phosphor screen being formed on an aluminum metal back layer; an electron gun mounted inside the neck to emit electron beams to the phosphor screen; a deflection yoke mounted around the neck; a light reception window provided on the funnel; a detector to generate an index electric signal by condensing index light generated from the index stripes through the light reception window; and an index circuit to transmit a signal obtained by synchronizing the index signal with a color signal. When a diagonal length on the outer surface of the funnel is "d", the light reception window is provided at a location within a range of 0.1-0.3d from a corner of a seal edge of the funnel.